Toshiba recommends Windows 8.1

	Portégé Z30-A1685
Processor	4th generation Intel® Core™ i7-4510U Processor with Intel® Turbo Boost Technology 2.0. clock speed : 2.00 / 3.10 Turbo GHz. 3rd level cache : 4 MB.
Operating system	**Windows® 7 Professional 64-bit (pre-installed) and Windows 8.1 Pro 64-bit (on DVD only; upgrade to Windows 8 requires an external DVD player).**
Design Colour	colour : Steel grey metallic, magnesium chassis, matt black keyboard.
System memory	standard : 12,288 (8,192 + 4,096) MB. maximum expandability : 16,384 MB. technology : DDR3L RAM (1,600 MHz).
Solid State Drive	capacity : 256 GB.
Display	size : 33.8cm (13.3") . Toshiba HD non-reflective High Brightness eDP™ display with 16 : 9 aspect ratio and LED backlighting. internal resolution : 1,366 x 768 .
Graphics adapter	memory type : shared . Intel® HD Graphics 4400.
Internal video modes	resolution : 1,366 x 768 .
Interfaces	1 x external Headphone (stereo) / Microphone combo socket . 1 x HDMI-out supporting 1080p signal format . 1 x external monitor . 3 x USB 3.0 (one supporting USB Sleep-and-Charge with Auto mode detection) . 1 x integrated 2.0MP FHD Web Camera (1,920 x 1.080) with built-in stereo microphone. 1 x Multi-Card Reader (supports SD™ Card up to 2 GB, miniSD™/microSD™ Card with adapter up to 2 GB, SDHC™ Card/microSDHC™ Card with adapte 32 GB, SDXC™ Card/microSDXC™ Card with adapter up to 128 GB and MultiMedia Card™ up to 2 GB) . 1 x RJ-45 .
Expansion	1 x connector to Toshiba Hi-Speed Port Replicator III. 2 x memory slots .
Wireless communication	Wireless Technology : Bluetooth® 4.0 + LE. Wireless Technology : Intel® Wireless Display. Compliancy : Wi-Fi™ . Manufacturer : Intel®. Network Support : 802.11a/g/n. Wireless Technology : Wireless LAN . Version : Intel® Dual Band Wireless-AC 7260. Compliancy : Mobile Broadband 3G/LTE (4G). Manufacturer : Sierra Wireless. Version : EM7305. Wireless Technology : LTE (4G), HSPA+, GSM/GPRS/EDGE.
Wired communication	topology : Gigabit Ethernet LAN . speed : 10BASE-T/100BASE-TX/1000BASE-T .
Keyboard	special features : Full-size matt black tile keyboard. keys : 86.
Pointing device	Clickpad with multi-touch control gestures supporting various scroll, zoom and launch functionalities at your fingertips. .
Battery	technology : lithium-ion polymer, 4 cell. maximum life : up to 12h00min (Mobile Mark™ 2012).
AC adapter	input voltage : autosensing AC adapter (100/240 V) for worldwide usage . output voltage : 19 V. output current : 2.37 A.
Physical dimensions	W x L x H : 316.0 x 227.0 x 13.9 (front) / 17.9 (rear) mm. weight : starting at 1.20 kg.
Sound system	speakers : built-in stereo speakers, enhanced by DTS® Studio Sound™. volume dial : by hot key function.
Warranty	3 years international Carry-in. Toshiba also offers a large range of services to upgrade your standard warranty, please have a look at our website http://www.toshibamea.com/servicesolutions to find the right service for your product. .
Bundled hardware	AC adapter .
Bundled software	DTS® Studio Sound™ .Microsoft® Office 2013 (1 month trial for new Microsoft® Office 365 customers) .TOSHIBA PC Health Monitor .McAfee® Internet Security (includes complimentary 30 day subscription) .TOSHIBA Eco Utility™ .
Toshiba EasyGuard - Security	Computrace® enabled BIOS .Password Utilities .Toshiba Device Access Control (on request) .Advanced Encryption (TPM) .Antivirus Software .Toshiba Security Assist .
Toshiba EasyGuard - Protection	A Solid State Drive (SSD) is a data storage device that uses solid-state memory to store persistent data. With no moving parts, the SSD is much less likely to fail in extreme outdoor temperatures and conditions of vibration and shock when, for instance, it accidentally falls. .Durable Design .PC Diagnostics .Kensington Lock .Data Backup .Spill-resistant Keyboard .Shock Protection Design .

Toshiba EasyGuard - Connectivity	Diversity Antenna .Voice over IP ready .Video over IP ready .HDMI-out .Bluetooth® .Intel® Wireless Display .
Toshiba EasyGuard - Manageability	Port Replicator (optional) .Toshiba TEMPRO Performance Tuning Service .PC Health Monitor .Eco Utility .Non Reflective Screen .Dynadock 'USB Port Replicator' (optional) .Virtualization Technology .Toshiba Power Saver Utility .Multi-Touch Touchpad .
Security features	user password .supervisor password .HDD password on request .slot for Kensington Cable Lock .
Special features	HD Audio supporting .SM BIOS compliant .ENERGY STAR qualified computer .Enhanced Intel® SpeedStep® Technology .
Casework	Magnesium Alloy .

CPU performance may vary from specifications under certain conditions such as the use of battery instead of AC power, certain external peripherals, certain multimedia applications or network connections, complex modeling software and in areas with low air pressure at high altitude (1,000 metres above sea level) and/or certain temperatures. CPU performance may also vary from specifications due to design configuration. Under some conditions, your computer may automatically shutdown as a normal protective measure. To avoid risk of lost data, please make periodic back-up copies. For optimum performance, use your computer only under recommended conditions. Please read detailed restrictions in the product resource guide, visit the Toshiba web site: www.computers.toshiba-europe.com and/or contact Toshiba Technical Support. - Graphics processor unit (GPU) performance may vary depending on product model, design configuration, applications, power management settings and features utilized. - Part of the main system memory may be used by the graphics system and therefore reduce the amount of main system memory available. - For PCs configured with 4 GB of system memory, the full system memory space for computing activities will be considerably less and will vary by model and system configuration. - For information about upgrading your system memory please refer to the user manual or contact your local Toshiba service provider. - One GB means one billion bytes, accessible capacity may be less. - Wired and wireless communication capabilities to be applied in countries where approved. - Battery life may vary depending on applications, power management settings and features utilized. Recharge time varies depending on usage. Battery may not charge while computer is consuming full power. After a period of time, the battery will lose its ability to perform at maximum capacity and will need to be replaced. This is normal for all batteries. To purchase a new battery pack, see your accessories information that shipped with your computer or visit the Toshiba web site at www.computers.toshiba-europe.com. - Small bright dots may appear on your TFT display when you turn on your PC. Your display contains an extremely large number of thin-film transistors (TFT) and is manufactured using high-precision technology. Any small bright dots that may appear on your display are an intrinsic characteristic of the TFT manufacturing technology. - Weight may vary depending on product configuration, vendor components, manufacturing variability and options selected. - Please check your system specifications to ensure optimal results. - Certain notebook chassis are designed to accommodate all possible configurations for an entire product series. Your selected model may not have all the features and specifications corresponding to all of the icons or switches shown on the notebook chassis. - Performance may vary depending on product model, configuration, video content/format settings as well as the performance variations of individual hardware components. Results were achieved on select models and configurations tested by Toshiba at the time of publication.

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